

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A printing apparatus comprising:

a bitmap data storage unit for storing bitmap data;
a bitmap data acquisition unit for acquiring said bitmap data in a matrix of a dot pattern of $n \times m$ from said bitmap data storage unit;
a transformation rule retention unit for retaining data transformation rules for transforming bitmap data; and
a data transformation unit for transforming part of said bitmap data according to said transformation rules, wherein said transformation rules include a matrix of a dot pattern of $n \times m$ before transformation and a matrix of a dot pattern of $n \times m$ after transformation each of which corresponds to each of the before transformation $n \times m$ dot patterns, and according to said transformation rules, if the matrix of a dot pattern of $n \times m$ of said bitmap data matches any one of said $n \times m$ dot patterns before transformation, said pattern is transformed into the corresponding one of said dot patterns after transformation; and
a printing unit for printing data that is produced based on processing results.

2. (Canceled)

3. (Canceled)

4. (Previously Presented) The printing apparatus according to claim 1, wherein
said form of $n \times m$ dot pattern is 3×3 dot patterns.

5. (Previously Presented) A computer program stored in a computer readable medium for executing steps of:

acquiring bitmap data stored on the computer;
obtaining a matrix in a dot pattern of $n \times m$ from said bitmap data;
if the dot pattern matches any one of said $n \times m$ dot patterns before transformation,
transforming into the corresponding one of said dot patterns after transformation;

specifying printing of data that is produced based on processing results.

6. (Canceled)

7. (Previously Presented) A printing apparatus according to claim 1, further comprising a jaggy elimination processing unit for executing processing of eliminating jaggies on said bitmap data, and a printing unit for printing data that is produced based on processing results from said jaggy elimination processing unit.

8. (Currently Amended) A computer program stored in a computer readable medium according to claim 5, further comprising steps of eliminating jaggies appearing on said bitmap data, and specifying printing of data that is produced based on processing results of said step of eliminating jaggies. from said jaggy elimination processing unit.

9. (Currently Amended) A computer program stored in a computer readable medium according to claim 8, 5, further comprising a step of specifying printing of data that is produced based on transformation results of said transforming step from said data transformation unit and processing results of said step of eliminating jaggies. from said jaggy elimination processing unit.

10. (New) The printing apparatus according to claim 7, wherein
said jaggy elimination processing unit comprises:
a jaggy detection unit for detecting jaggies appearing on said bitmap data; and
a vector data production unit for producing vector data, based on all stair-like straight lines
on jaggies that were detected by said jaggy detection unit, by drawing a straight line from a
midpoint of one straight line to a midpoint of another straight line adjacent thereto.

11. (New) The printing apparatus according to any one of claims 7 and 2 further comprising:

said printing unit for printing data that is produced based on transformation results from
said data transformation unit and processing results from said jaggy elimination processing
unit.